

Madera County

Agricultural Crop Report
-2003-



Madera County Department of Agriculture Weights and Measures

Robert J. Rolan, Agricultural Commissioner
Sealer of Weights and Measures

Jay Seslowe, Assistant Agricultural
Commissioner/Sealer

A. G. Kawamura, Secretary
California Department of Food and Agriculture
and
The Honorable Board of Supervisors
Frank Bigelow, Vern Moss, Ronn Dominici, John Silva, and Gary Gilbert

In accordance with the provisions of Section 2279 of the California Food and Agricultural Code, I am pleased to submit the 2003 Agricultural Crop Report.

The gross production value of Madera County agricultural commodities in 2003 was \$760,784,000. This represents a decrease of 2.4% from the 2002 production value.

Field crop production decreased slightly for most commodities. Wheat production fell more significantly, with over two-thirds of Madera County wheat acreage affected by wheat stripe rust early in the season.

Almonds, enjoying continuing increases in acreage and a 42% increase in production value, became the number one crop in Madera County in 2003. Grape values were recovering, though not enough to offset substantial decreases in harvested acreage and yield per acre. Pistachio pollination was jeopardized by uneven temperatures, resulting in a 70% decrease in yield. Apples, olives, and many of the stone fruits saw increases in yield as less-productive orchards were pulled out of production.

Dairy herd numbers continued to grow in Madera County during 2003. Market milk production increased over 14% during 2003, resulting in an \$18.8 million increase in production value. Replacement heifers also saw increases in production value, with an overall increase of nearly \$3.3 million over the 2002 production value.

Nursery production acreage increased 58% in 2003, with an accompanying increase in production value of nearly \$2.4 million. In contrast, vegetable crop production values decreased over \$7 million.

It must be emphasized that the values presented in this report reflect gross values only, and do not in any manner reflect net income or loss to producers.

The preparation of a report of this type requires extensive collaboration, and I sincerely appreciate the contributions of our growers, the staff of the University of California Cooperative Extension, industry representatives, and my staff.

Sincerely,

A handwritten signature in black ink, reading "Robert J. Rolan". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Robert J. Rolan
Agricultural Commissioner

Field Crops

PRODUCTION						VALUE	
Item	Year	Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Alfalfa							
Hay	2003	40,100	7.19	288,319	Ton	\$102.00	\$29,409,000
	2002	40,700	7.42	301,994	Ton	102.00	30,803,000
	2001	34,500	7.50	258,750	Ton	124.00	32,085,000
Silage ^a	2003			61,400	Ton	32.00	1,965,000
	2002			63,700	Ton	29.00	1,847,000
	2001			38,112	Ton	29.00	1,105,000
Total	2003	40,100					31,374,000
	2002	40,700					32,650,000
	2001	34,500					33,190,000
Beans, Dry^b							
	2003	980	1.42	1,392	Ton	526.00	732,000
	2002	460	1.35	621	Ton	616.00	383,000
	2001	220	1.35	297	Ton	562.00	167,000
Corn							
Grain	2003	2,900	4.17	12,093	Ton	112.00	1,354,000
	2002	2,700	5.13	13,851	Ton	136.00	1,884,000
	2001	2,000	4.24	8,480	Ton	131.00	1,111,000
Silage	2003	18,800	23.89	449,132	Ton	21.00	9,432,000
	2002	18,700	25.48	476,476	Ton	20.00	9,530,000
	2001	15,600	25.75	401,700	Ton	21.00	8,436,000
Total	2003	21,700					10,786,000
	2002	21,400					11,414,000
	2001	17,600					9,547,000
Cotton							
Lint	2003	18,700	1,295^c	50,451	Bale^d	.75^e	18,162,000
	2002	17,300	1,438	51,828	Bale	.68	16,917,000
	2001	25,500	1,471	78,147	Bale	.68	25,507,000
Seed	2003			20,163	Ton	179.00	3,609,000
	2002			20,735	Ton	154.00	3,193,000
	2001			34,125	Ton	146.00	4,982,000
Oat							
Hay	2003	4,600	2.81	12,926	Ton	79.00	1,021,000
	2002	5,900	2.99	17,641	Ton	80.00	1,411,000
	2001	4,500	3.26	14,670	Ton	89.00	1,306,000
Pasture							
Irrigated	2003	5,000			Acre	130.00	650,000
	2002	4,900			Acre	125.00	613,000
	2001	4,800			Acre	125.00	600,000

Field Crops

PRODUCTION						VALUE	
Item	Year	Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Rangeland	2003	353,000			Acre	\$10.00	\$3,530,000
	2002	353,000			Acre	9.00	3,177,000
	2001	353,000			Acre	9.00	3,177,000
Wheat							
Grain	2003	4,500	1.79	8,055	Ton	125.00	1,007,000
	2002	5,900	2.85	16,815	Ton	113.00	1,900,000
	2001	13,500	2.68	36,180	Ton	110.00	3,980,000
Silage	2003	15,100	12.99	196,149	Ton	18.00	3,531,000
	2002	17,800	13.48	239,944	Ton	17.00	4,079,000
	2001	8,500	10.27	87,295	Ton	18.00	1,571,000
Total	2003	19,600					4,538,000
	2002	23,700					5,979,000
	2001	22,000					5,551,000
Winter Forage	2003	3,200	11.51	36,832	Ton	15.00	552,000
	2002	2,800	14.94	41,832	Ton	15.00	627,000
	2001	2,000	12.40	24,800	Ton	15.00	372,000
Miscellaneous^f	2003	2,700					3,420,000
	2002	3,800					4,340,000
	2001	4,000					3,681,000
TOTAL	2003	469,600					\$78,374,000
	2002	474,000					81,070,000
	2001	468,750					88,779,000

a/ Alfalfa acreage yields both hay and silage

b/ Includes black-eyes, kidneys and limas

c/ Pounds

d/ Bale: 480 pounds

e/ Per pound

f/ Includes barley, rice, safflower, Sudan grass, seed crops, sugar beets, field stubble and straw

Vegetable Crops

Item	Year	Harvested Acreage	Total Value
Vegetables^a	2003	3,600	\$18,317,000
	2002	3,700	25,763,000
	2001	3,100	13,602,000

a/ Includes artichokes, all cabbage, carrots, cucumbers, eggplant, garlic, herbs, melons, onions, all peppers, potatoes, all squash, all tomatoes, and miscellaneous truck crops

Fruit & Nut Crops

PRODUCTION						VALUE	
Item	Year	Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Almonds^a	2003	55,200	0.94	51,888^b	Ton	\$2,987.00	\$154,989,000
	2002	52,900	1.04	55,016	Ton	2,093.00	115,148,000
	2001	49,200	.90	44,280	Ton	1,830.00	81,032,000
Almond Hulls	2003			98,587	Ton	78.00	7,690,000
	2002			104,530	Ton	77.00	8,049,000
	2001			84,132	Ton	75.00	6,310,000
Apples	2003	1,420	15.20	21,584	Ton	221.00	4,770,000
	2002	1,670	8.90	14,863	Ton	236.00	3,508,000
	2001	1,880	6.68	12,558	Ton	215.00	2,700,000
Figs	2003	8,200	1.72	14,104	Ton	957.00	13,498,000
	2002	8,330	1.89	15,744	Ton	985.00	15,508,000
	2001	8,510	1.43	12,169	Ton	912.00	11,098,000
Grapes							
Raisin Varieties							
Crushed	2003	12,400	9.14	113,336	Ton	93.00	10,540,000
	2002	16,300	11.23	183,049	Ton	76.00	13,912,000
	2001	7,800	7.16	55,848	Ton	78.00	4,356,000
Dried	2003	20,700	2.12	43,884	Ton	595.00	26,111,000
	2002	19,300	2.77	53,461	Ton	433.00	23,149,000
	2001	33,480	1.87	62,608	Ton	525.00	32,869,000
Fresh	2003	1,980	9.12	18,058	Ton	1,033.00	18,654,000
	2002	2,380	9.68	23,038	Ton	997.00	22,969,000
	2001	2,480	7.00	17,360	Ton	690.00	11,978,000
Table Varieties	2003	1,960	6.57	12,877	Ton	1,204.00	15,504,000
	2002	2,370	8.11	19,221	Ton	1,006.00	19,336,000
	2001	2,580	7.08	18,266	Ton	700.00	12,786,000
Wine Varieties ^c							
Red Varieties	2003	29,000	8.72	252,880	Ton	178.00	45,013,000
	2002	27,300	10.23	279,279	Ton	161.00	44,964,000
	2001	24,780	8.26	204,683	Ton	188.00	38,480,000
White Varieties	2003	21,200	10.70	226,840	Ton	143.00	32,438,000
	2002	24,000	9.55	229,200	Ton	134.00	30,713,000
	2001	23,390	9.09	212,615	Ton	159.00	33,806,000
Total Grapes	2003	87,240					148,260,000
	2002	91,650					155,043,000
	2001	94,510					134,275,000
Nectarines	2003	590	8.73	5,151	Ton	609.00	3,137,000
	2002	450	7.66	3,447	Ton	530.00	1,827,000
	2001	690	4.74	3,271	Ton	615.00	2,011,000

Fruit & Nut Crops

PRODUCTION						VALUE	
Item	Year	Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Olives	2003	1,490	6.14	9,149	Ton	\$420.00	\$3,842,000
	2002	1,820	5.63	10,247	Ton	625.00	6,404,000
	2001	1,730	4.88	8,442	Ton	728.00	6,146,000
Oranges	2003	3,710	14.36	53,276	Ton	124.00	6,606,000
	2002	3,910	10.42	40,742	Ton	208.00	8,474,000
	2001	3,460	10.73	37,126	Ton	169.00	6,274,000
Peaches							
Cling	2003	560	16.74	9,374	Ton	222.00	2,081,000
	2002	990	17.08	16,909	Ton	211.00	3,568,000
	2001	940	10.27	9,654	Ton	221.00	2,133,000
Freestone	2003	1,010	12.01	12,130	Ton	278.00	3,372,000
	2002	940	14.50	13,630	Ton	490.00	6,679,000
	2001	870	10.76	9,361	Ton	357.00	3,342,000
Pistachios	2003	22,900	0.55	12,595^b	Ton	2,532.00	31,891,000
	2002	21,500	1.87	40,205	Ton	2,333.00	93,798,000
	2001	19,600	0.80	15,680	Ton	2,144.00	33,618,000
Plums	2003	810	7.78	6,302	Ton	434.00	2,735,000
	2002	970	8.48	8,226	Ton	535.00	4,401,000
	2001	1,050	5.87	6,164	Ton	525.00	3,236,000
Plums, Dried^d	2003	1,560	2.77	4,321	Ton	729.00	3,150,000
	2002	1,810	3.60	6,516	Ton	793.00	5,167,000
	2001	1,750	2.56	4,480	Ton	756.00	3,387,000
Walnuts	2003	1,030	1.53	1,576	Ton	1,065.00	1,678,000
	2002	940	1.25	1,175	Ton	1,126.00	1,323,000
	2001	1,020	1.37	1,397	Ton	1,226.00	1,713,000
Miscellaneous							
Fruits & Nuts ^e	2003	1,480					6,193,000
	2002	1,180					4,203,000
	2001	960					3,167,000
Orchard Firewood	2003			6,000	Cord		810,000
	2002			6,600	Cord		759,000
	2001			6,000	Cord		660,000
TOTAL	2003	187,200					\$394,702,000
	2002	189,000					433,859,000
	2001	186,170					301,102,000

a/ Meat basis

b/ Reflects total production, including imperfect stock; price weighted accordingly

c/ Includes table grapes crushed

d/ Reported previously under Prunes; dried weight

e/ Includes apricots, berries, cherries, kiwis, pears, pecans, persimmons, pomegranates, tangelos, tangerines, and strawberries

Forest Products

Item	Year	Production	Unit	Total Value
Timber	2003	3,189	MBF^a	\$538,000
	2002	5,905	MBF	1,125,000
	2001	6,672	MBF	1,353,000
Firewood	2003	1,360	Cords^b	141,000
	2002	3,000	Cords	300,000
	2001	3,530	Cords	318,000
TOTAL	2003			\$679,000
	2002			1,425,000
	2001			1,671,000

a/ Million Board Feet

b/ Cord: 128 cubic feet

Nursery Products

Item	Year	Field Acres	House Sq. Ft.	Total Value
Nursery Stock^a	2003	475	570,000	\$20,660,000
	2002	300	555,000	18,271,000
	2001	860	507,000	24,543,300

a/ Includes grapevines, fruit trees, nut trees and ornamentals

Apiary Products

PRODUCTION				VALUE	
Item	Year	Total	Unit	Per Unit	Total
Apiary Products					
Beeswax	2003	12,400	Pound	\$ 0.93	\$12,000
	2002	11,900	Pound	1.00	12,000
	2001	10,300	Pound	1.04	11,000
Honey	2003	659,000	Pound	1.31	863,000
	2002	815,000	Pound	1.24	1,011,000
	2001	668,000	Pound	0.53	354,000
Pollination	2003	151,000	Colony	51.40	7,761,000
	2002	146,000	Colony	45.90	6,701,000
	2001	124,800	Colony	43.50	5,429,000
TOTAL	2003				\$8,636,000
	2002				7,724,000
	2001				5,794,000

Livestock and Poultry

PRODUCTION					VALUE	
Item	Year	Head	Liveweight	Unit	Per Unit	Total
Cattle and Calves ^a	2003	61,700	449,000	CWT ^b	\$65.00	\$29,185,000
	2002	57,800	425,000	CWT	57.00	24,225,000
	2001	52,600	390,400	CWT	61.00	23,814,000
Replacement Heifers ^c	2003	28,500			1,650.00	47,025,000
	2002	25,000			1,750.00	43,750,000
	2001	22,000			1,600.00	35,200,000
Poultry	2003					22,125,000
	2002					23,801,000
	2001					23,489,000
TOTAL	2003					\$98,335,000
	2002					\$91,776,000
	2001					82,503,000

a/ Range and dairy cattle sold for beef

b/ Hundredweight: 100 pounds

c/ Milk cows

Livestock and Poultry Products

PRODUCTION				VALUE	
Item	Year	Production	Unit	Per Unit	Total
Milk Market ^a	2003	11,541,302	CWT	\$ 11.00	\$126,954,000
	2002	10,073,081	CWT	10.73	108,120,000
	2001	9,039,069	CWT	13.76	124,345,000
Milk Manufacturing ^a	2003	170,804	CWT	11.82	2,019,000
	2002	65,472	CWT	11.04	723,000
	2001	47,386	CWT	13.86	657,000
Other Products ^b	2003				12,108,000
	2002				10,779,000
	2001				8,798,000
TOTAL	2003				\$141,081,000
	2002				119,622,000
	2001				133,800,000

a/ Madera County has 56 dairies, with 45,700 lactating cows

b/ Includes aquaculture, beneficial insect production, ducks, market eggs, hogs, manure, sheep, lambs and wool

2003 Sustainable Agriculture Report

The **Pest Exclusion Program** prevents the introduction of injurious pests that are not of common occurrence in the county.

Twenty nursery locations were inspected for pests and plant pathogens. In addition, 650 shipments of plant material, received by nurseries, were inspected for potentially injurious pests prior to retail sale.

Over 140 locations were surveyed for Red Imported Fire Ants, including commercial nurseries, recently-landscaped residential developments, and orchards pollinated by out-of-state beehives. Nearly 350 acres are under treatment for Red Imported Fire Ants.

Countries receiving agricultural commodities require certification that the commodities are free from potentially injurious pests. Over 1,690 phytosanitary inspections were performed on Madera County commodities destined for export.

The **Pest Detection Program** utilizes insect traps and surveys for the detection of foreign pests which may have eluded exclusion efforts.

The trapping program in Madera County targeted multiple pests, including the following:

<i>Apple Maggot</i>	<i>Khapra Beetle</i>	<i>Mediterranean Fruit Fly</i>
<i>Gypsy Moth</i>	<i>European Corn Borer</i>	<i>Melon Fly</i>
<i>Japanese Beetle</i>	<i>European Pine Shoot Moth</i>	<i>Mexican Fruit Fly</i>
<i>Oriental Fruit Fly</i>	<i>Caribbean Fruit Fly</i>	

Over 1,060 traps were deployed in the county, with 12,035 trap servicings performed during the 2003 season.

The **Integrated Pest Control Program** strives to eradicate infestations of new pests before they become widespread. Pink Bollworm was controlled by post-season plowdown of 18,680 acres of cotton plants.

The **Glassy-winged Sharpshooter Program** serves to detect and control the vector of Pierce's Disease, a potentially catastrophic disease of vineyards. This program involved the placement of 690 traps, with 9,600 subsequent trap servicings. In addition, incoming shipments of host materials and susceptible county plantings were inspected

The **Vertebrate Pest Management Program** provides expertise and materials, to growers and homeowners, for the control of certain depredating vertebrate pests.

Thirty-four **Organic Farms**, totaling 3,550 acres, were registered in Madera County in 2003. Utilizing organic principals defined in the California Organic Food Act of 1990, these farms produce a wide array of commodities:

almonds, apples, apricots, artichoke, arugula, basil, green beans, beets, broccoli, brussels sprouts, cabbage, cantaloupe, cardoon, carrots, celery, chard, cherries, chicory, cilantro, collards, sweet corn, cotton, cucumbers, eggplant, fennel, figs, edible flowers, garlic, gourds, grapes (table, raisin, wine), honeydew, kale, kohlrabi, leeks, lettuce, nectarines, okra, onions, parsley, parsnips, peaches, peas, peppers, pistachio, plums, dried plums, potatoes, prunes, radish, rutabagas, spinach, squash, sudangrass, tomatillos, tomatoes, turnips, watermelons

The total value organic production in Madera County during 2003 was \$5,387,000.

*Madera County
Department of Agriculture*

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